

TITLE
CHIMERIC GENES AND METHODS FOR INCREASING
THE LYSINE CONTENT OF THE SEEDS OF PLANTS

ABSTRACT

5 Chimeric genes are disclosed. One chimeric gene encodes a plant lysine ketoglutarate
reductase and a second chimeric gene encodes lysine-insensitive dihydrodipicolinic acid
synthase (DHDPS) which is operably linked to a plant chloroplast transit sequence, all
operably linked to plant seed-specific regulatory sequences. Methods for their use to
produce increased levels of lysine in the seeds of transformed plants are provided.

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